

ABSTRACT

An R-Fe-B base sintered magnet having a composition of
5 12-17 at% of R (wherein R stands for at least two of yttrium
and rare earth elements and essentially contains Nd and Pr),
0.1-3 at% of Si, 5-5.9 at% of B, 0-10 at% of Co, and the
balance of Fe, containing a $R_2(Fe,(Co),Si)_{14}B$ intermetallic
compound primary phase and at least 1% by volume of an
10 R-Fe(Co)-Si grain boundary phase, and being free of a B-rich
phase exhibits a coercive force of at least 10 kOe despite a
reduced content of heavy rare earth.